

ABSTRACT OF THE DISCLOSURE

5 A system and method for processing a variable
looping statement into a constant looping statement to
enable loop unrolling. A lower bound and an upper bound
of the loop index within the variable looping statement
are determined. A constant looping statement is then
formed using the lower bound and upper bound to define a
range over which the loop index varies within the
10 constant looping statement. The constant looping
statement further includes a conditional statement that
reflects conditions in the initial expression and/or the
exit expression of the variable looping statement. The
conditional statement controls execution of the body of
15 the generated constant looping statement, which includes
the body from the original variable looping statement.
Loop unrolling may then be performed on the generated
constant looping statement.

20 240640

240640-1